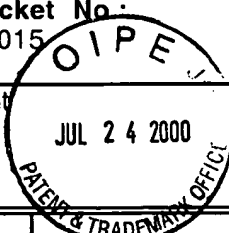




Form PTO-1449 (Modified)		Atty Docket No.: 02489.P015		Serial No.: 09/406,170	
List of Patents and Publications Statement (Use several sheets if necessary)				Applicant: Varadarajan Srinivasan, et al.	
				Filing Date: September 23, 1999	



REFERENCE DESIGNATION			U.S. PATENT DOCUMENTS			
Examiner Initials		Document No.		Class	Sub-Class	Filing date if appropriate
	AA	5,649,149	Stormon et al.	<del>365</del>	<del>435</del>	<del>08-01-1994</del>
	AB	5,818,873	Wall et al.	<del>375</del>	<del>240</del>	<del>08-03-1992</del>
SB	AC	5,841,874	Kempke et al.	380	50	08-13-1996
SB	AD	5,860,085	Stormon et al.	711	108	08-01-1994
SB	AE	5,893,931	Peng et al.	711	206	01-15-1997
SB	AF	5,930,359	Kempke et al.	380	9	09-23-1996
SB	AG	3,602,899	Lindquist et al.	340	172.5	06-20-1969
SB	AH	3,685,020	Meade	340	172.5	05-25-1970
SB	AI	4,996,666	Duluk, Jr.	365	49	02-26-1991
SB	AJ	5,440,709	Edgar	395	401	02-28-1994
SB	AK	5,745,488	Thompson et al.	370	395	04-29-1996
SB	AL	5,920,886	Feldmeier	711	108	03-14-1997
SB	AM	5,946,704	Yoneda et al.	711	108	02-10-1995
SB	AN	6,081,440	Washburn et al.	365	49	11-05-1998
SB	AO	6,011,795	Varghese et al.	370	392	03-20-1997
SB	AP	6,065,064	Satoh et al.	709	249	04-17-1998


FOREIGN PATENT DOCUMENTS							
No.		Document No.	Date	Country	Class	Sub-Class	Translation
	AQ	WO 98/12651	<del>03-26-1998</del>	<del>WIPO</del>			
	AR	EP 0 381 249 A2	<del>08-08-1990</del>	<del>Europe</del>			
	AS	EP 0 267 612 A2	<del>05-18-1988</del>	<del>Europe</del>			
	AT	EP 0 872 802 A2	<del>10-21-1998</del>	<del>Europe</del>			
	AU	WO 99/31581	<del>06-24-1999</del>	<del>WIPO</del>			

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
SB	AV	Pankaj Gupta and Nick McKeown, "Packet Classification on Multiple Fields," SIGCOMM (September 2, 1999), 14 pages.
SB	AW	V. Srinivasan, et al., "Packet Classification using Tuple Space Search," SIGCOMM (September 2, 1999), 12 pages.
SB	AX	MUSIC Semiconductors, Advance Information, "MUAA Routing CoProcessor (RCP) Family," (October 1, 1998), Rev. 1b, pages 1-16.
	AY	
	AZ	

Examiner <i>ABQ</i>	Date Considered <i>7/10/02</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)		Docket No.: 002489.P015		Serial No.: 09/406,170	
List of Patents and Publications Statement (Use several sheets if necessary)				Applicant: Varadarajan Srinivasan et al.	
				Filing Date: 9-23-99	



REFERENCE DESIGNATION			U.S. PATENT DOCUMENTS			
Examiner Initials	Document No.	Class	Sub-Class	Filing date if appropriate		
	AA 4,845,668	Sano et al.	365	49		
	AB 5,010,516	Oates	365	49		
	AC 5,072,422	Rachels	365	49		
	AD 5,621,677	Jones	365	49		
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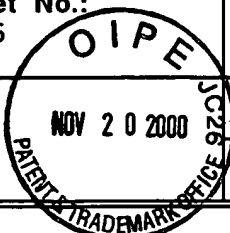
FOREIGN PATENT DOCUMENTS							
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	AU						

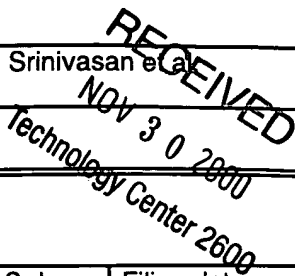
OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
	AV	Kanad Ghose, "Response Pipelined Cam Chips: The First Generation and Beyond", 7 <sup>th</sup> International Conference on VLSI Design, January 1994, pp. 365-368
	AW	Anthony McAuley et al., "A Self-Testing Reconfigurable CAM", IEEE Journal of Solid State Circuits, Vol. 26, No. 3, March 1991 pp. 257-261
	AX	Ian N. Robinson, "Pattern Addressable Memory", IEEE Micro, June 1992, pp. 20-30
	AY	GEC Plessey Semiconductors, "P2800 2K x 64 Bit Multi-Port Content Addressable Memory", Preliminary Information, February 1997, pp. 1-15
	AZ	GEC Plessey Semiconductors, "P2800 Multi-port Content Addressable Memory", Functional Product Specification GPS-FPS-2800-12, January 1996

Examiner <i>SP 225</i>	Date Considered <i>7/10/02</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)		Docket No.: 02489.P015		Serial No.: 09/406,170	
List of Patents and Publications Statement (Use several sheets if necessary)				Applicant: Varadarajan Srinivasan et al	
				Filing Date: 9-23-99	





REFERENCE DESIGNATION			U.S. PATENT DOCUMENTS			
Examiner Initials	Document No.	Class	Sub-Class	Filing date if appropriate		
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	AB					
	AC					
	AD					
	AE					
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	AO					
	AP					

FOREIGN PATENT DOCUMENTS							
No.	Document No.	Date	Country	Class	Sub-Class	Trans-lation	
	AQ						
	AR						
	AS						
	AT						
	AU						

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
SB	AV	Music Semiconductors, MU9C2480 LANCAM, Preliminary Data Sheet, August 25, 1995, pp. 1-24
SB	AW	Music Semiconductors, MU9C1480 LANCAM Handbook, November 1994
SB	AX	KLSI KE5B064A1 Address Processor Ver. 2.0.2 Preliminary (believed to be published late 1995 or early 1996)
SB	AY	KLSI KE5B064H Series Address Processor Ver. 1.0.1 (believed to be published in late 1995 or early 1996)
	AZ	

Examiner <u>ABA</u>	Date Considered <u>7/10/02</u>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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Substitute For Form 149A/PTO/CB7 (Modified 5-19-2000)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	Complete if Known	
	Application No	09/406,170
	Filing Date	September 23, 1999
	First Named Inventor	V. Srinivasan, et al.
	Group Art Unit	2731
Examiner Name	Not yet assigned	
Sheet 1 of 4	Attorney Docket Number 002489.P015	

## U.S. PATENT DOCUMENTS

Examiner Initials*	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication Cited Document MM-DD-YYYY	Filing date if Appropriate
	6,006,306	Haywood, et al.	12/21/99	
	6,000,008	Simsee	12/7/99	
	5,949,696	Throewitt	09/07/99	
	5,870,324	Holwig	02/09/99	
	5,818,786	Yoneda	10/06/98	
	5,706,224	Srinivasan, et al.	01/06/98	
	5,642,322	Yoneda	06/24/97	
	5,517,441	Dietz et al.	05/14/96	
	5,513,134	Cooperman et al.	04/30/96	
	5,491,703	Bamaby et al.	02/13/96	
	5,490,102	Jurbran	02/06/96	
	5,485,418	Hiraki et al.	01/16/96	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Patent Document			Class	Subclass	Translation? Yes/No
	Office or Country	Number	Date			
	WIPO	WO 98/12651 ✓	03-26-1998			
	Europe	EP 0 381 249 A2 ✓	08-08-1990			
	Europe	EP 0 267 612 A2 ✓	05-18-1988			
	Europe	EP 0 872 802 A2 ✓	10-21-1998			
	WIPO	WO 98/31581 ✓	06-24-1999			

## OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

Examiner Initials*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), publisher, city and/or country where published (if title of the item known). (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s),	Translation? Yes/No
	Music Semiconductors, "MU9C1480 LANCAM" Advance Information, March 22, 1990, pp. 1-11	
	Music Semiconductors, "MUAA™ CAM Family" Advanced Information, February 24, 1998, Rev. 0, pp. 1-16.	
	Motorola Semiconductor Technical Data, "Advanced Information 16K X 64 CAM", MCM69C432, January 1996, pp. 4 pages	
	Advanced Micro Devices, "Final Am99C10A 256 x 48 Content Addressable Memory" Publication No. 08125, Rev. G, December 1992, pp. 1-21.	

Examiner

Date Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner Signature	<i>LB Count</i>	Date Considered	7/6/03
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Substitute For Form 449A/PTO (Modified 5-19-2000)		Complete if Known			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		Application No	09/406,170		
		Filing Date	September 23, 1999		
		First Named Inventor	V. Srinivasan, et al.		
		Group Art Unit	2731		
		Examiner Name	Not yet assigned		
Sheet 2 of 4	Attorney Docket Number		002489.P015		
<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials*	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication Cited Document MM-DD-YYYY	Filing date if Appropriate	
	5,469,161	Bezek	11/21/95		
	5,455,576	Clark, II et al.	10/3/95		
	5,454,094	Montove	09/26/95		
	5,422,838	Lin	06/06/95		
	5,414,704	Spinney	05/09/95		
	5,383,146	Threewitt	01/17/95		
	5,319,763	Ho et al.	06/07/94		
	5,265,100	McClure et al.	11/23/93		
	5,239,642	Gutierrez et al.	08/24/93		
	5,226,005	Lee et al.	07/06/93		
	5,111,427	Kobayashi et al.	05/05/92		
	5,107,501	Zorian	04/21/92		
<b>FOREIGN PATENT DOCUMENTS</b>					
Examiner Initials*	Foreign Patent Document		Class	Subclass	Translation? Yes/No
	Office or Country	Number	Date		
	Japan	08167295	6-25-96		
	EPO	0-660-332-A1			
<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)</b>					
Examiner Initials*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), publisher, city and/or country where published (if title of the item known). (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s).				Translation? Yes/No
	Takeshi Ogura et al., "A 4kbit Associative Memory LSI", IEEE Journal of Solid-State Circuit, Vol. SC-20, No. 6, December 1985, pp. 1277-1281.				
	Hiroshi Kadota et al., "An 8kbit Content-Addressable and Reentrant Memory", IEEE Journal of Solid-State Circuits, Vol. SC-20, No. 5, October 1985, pp. 951-956.				
	Simon R. Jones et al., "A 9-kbit Associative Memory for High-Speed Parallel Processing Applications", IEEE Journal of Solid-State Circuits, Vol. 23, No. 2, April 1988, pp. 543-548.				
	Landrock et al., "Associative Storage Module", IBM Technical Disclosure Bulletin, Vol. 25, No. 5, October 1992, pp. 2341-2342.				
Examiner	Date Considered				

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<b>Substitute For Form 1449 APTO</b> (Modified 5-19-2000)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	<b>Complete if Known</b>	
	<b>Application No</b>	09/406,170
	<b>Filing Date</b>	September 23, 1999
	<b>First Named Inventor</b>	V. Srinivasan, et al.
	<b>Group Art Unit</b>	2731
<b>Examiner Name</b>	Not yet assigned	
<b>Sheet 3 of 4</b>	<b>Attorney Docket Number</b>	002489.P015

### U.S. PATENT DOCUMENTS

Examiner Initials*	U.S. Patent Document	Name of Patentee or Applicant of Cited Document	Date of Publication Cited Document MM-DD-YYYY	Filing date if Appropriate
	Number			
	5,053,991	Burrows	10/1/91	
	5,051,948	Watabe et al.	09/24/91	
	5,036,486	Noguchi et al.	07/30/91	
	5,014,195	Farrell et al.	05/07/91	
	4,975,873	Nakabayashi et al.	12/04/90	
	4,959,811	Szezepanek	09/25/90	
	4,958,377	Takahashi	09/18/90	
	4,928,260	Chuang et al.	05/22/90	
	4,903,234	Sakaraba et al.	02/20/90	
	4,813,002	Joyce et al.	03/14/89	
	4,791,606	Threewitt et al.	12/13/88	
	4,785,398	Joyce et al.	11/15/88	
	4,780,845	Threewitt	10/25/88	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Patent Document			Class	Subclass	Translation? Yes/No
	Office or Country	Number	Date			

### OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

Examiner Initials*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), publisher, city and/or country where published (if title of the item known), (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s),	Translation? Yes/No
	10 Soo-ik Chae et al., "Content-Addressable Memory for VLSI Pattern Inspection", IEEE Journal of Solid-State Circuits, Vol. 23, No. 1, February 1988, pp. 74-78.	
	11 Yong-Chui Shin et al., "A Special-Purpose Content-Addressable Memory Chip for Real-Time Image Processing", IEEE Journal of Solid-State Circuits, Vol. 27, No. 5, May 1992, pp. 737-744.	
	12 Sergio R. Ramirez-Chavez, "Encoding Don't Cares in Static and Dynamic Content-Addressable Memories", Transaction Briefs, IEEE Transactions on Circuits and System-II: Analog and Digital Signal Processing, Vol. 39, No. 8, August 1992, pp. 575-578	
	13 Keikichi Tamaru, "The Trend of Functional Memory Development", INVITED PAPER Special Issue on LSI Memories, IEICE Trans. Electron, Vol. E76-C, No. 11, Nov. 1993, pp. 1545-1554	
	14 Pankaj Gupta et al., "Routing Lookups in Hardware at Memory Access Speeds", Proc. Infocom, April 1998, 8 pgs.	
	15 Masayoshi Kobayashi et al., "A 50Mpps Longest-Prefix-Match Search Engine LSI for Multi-gigabit IP Forwarding", Technical Report of IEICE IN08-119, November 1998, pp. 7-12.	

<b>Examiner</b> 	<b>Date Considered</b> 2/10/03
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<p>Substitute For Form 149A/PTO (Modified 5-19-2000)</p> <p style="text-align: center;"><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(use as many sheets as necessary)</p>		<p><i>Complete if Known</i></p>		
		Application No	09/406,170	
		Filing Date	September 23, 1999	
		First Named Inventor	V. Srinivasan, et al.	
		Group Art Unit	2731	
		Examiner Name	Not yet assigned	
Sheet 4 of 4		Attorney Docket Number	002489.P015	

U.S. PATENT DOCUMENTS				
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	4,758,982	Price	07/19/88	
	4,747,080	Yamada	05/24/88	
	4,670,858	Almy	06/02/87	
	4,656,626	Yudichak et al.	04/07/87	
	4,646,271	Uchiyama	02/24/87	
	4,523,301	Kadota	06/11/85	
	4,472,805	Wacyk et al.	09/18/84	
	4,244,033	Hattori	04/06/81	
	4,112,502	Seheuneman	9/05/78	
	3,868,642	Sachs	2/25/75	
	3,675,211	Raviv	7/04/72	
	3,353,159	Lee, III	11/14/67	
	3,257,646	Roth	6/21/66	

FOREIGN PATENT DOCUMENTS					
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	Office or Country	Number	Date		

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
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	Masao Akata, "A Scheduling Content-Addressable-Memory for ATM Space-Division-Switch Control", IEEE-International-Solid-State-Circuits-Conference, Feb. 1991, New York.	

Examiner	Date Considered
No Reference considered	

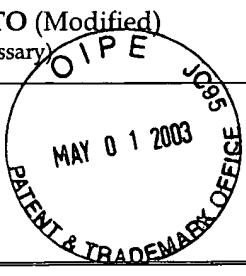

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
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Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 002489.P015		Application Number: 09/406,170		
		First Named Inventor: V. Srinivasan		<b>RECEIVED</b>  <b>MAY 02 2003</b>		
		Filing Date: 9/23/99				
<b>U.S. PATENT DOCUMENTS</b>						
Technology Center 2600						
Exam. Initial*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code <sup>2</sup>	Kind (If known)			
		<del>6,362,993</del>		Henderson et al.	<del>3/26/02</del>	
		6,289,414		Feldmeier et al.	9/11/01	
		<del>6,175,514</del>		<del>Henderson et al.</del>	<del>1/16/01</del>	
		<del>6,069,573</del>		<del>Clark, II et al.</del>	<del>5/30/00</del>	
		<del>5,999,435</del>		Henderson et al.	<del>12/7/99</del>	
		<del>5,978,885</del>		<del>Clark, II</del>	<del>11/2/99</del>	
		<del>5,828,324</del>		<del>Clark, II</del>	<del>10/27/98</del>	
		<del>5,406,508</del>		Hayashibara	<del>4/11/95</del>	

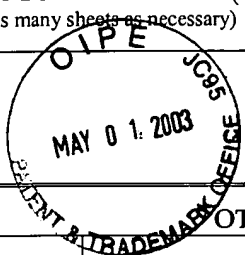
FOREIGN PATENT DOCUMENTS								
Exam. Initial *	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				
		PCT	WO01/11630A1		Fast-Chip Incorporated	2/15/01		

Examiner Signature		Date Considered	7/10/03
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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 002489.P015	Application Number: 09/406,170
		First Named Inventor: V. Srinivasan	RECEIVED
		Filing Date: 9/23/99	MAY 02 2003
OTHER ART - NO PATENT LITERATURE DOCUMENTS Technology Center 2600			
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation <sup>2</sup>
JB		Patent Abstracts of Japan, Application No. 09279525, Filed September 26, 1997.	

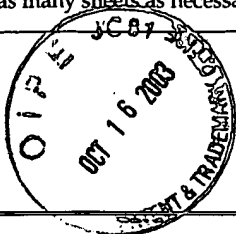
Examiner Signature	<i>[Signature]</i>	Date Considered	7/10/03
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<b>Substitute for Form 1449A/PTO (Modified)</b> (use as many sheets as necessary)	<b>Attorney Docket No.:</b> 002489.P015	<b>Application Number:</b> 09/406,170
	<b>First Named Inventor:</b> V. Srinivasan	
	<b>Filing Date:</b> 9/23/99	



### U.S. PATENT DOCUMENTS

Exam. Initial*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code <sup>2</sup>	Kind (If known)			
J		5,339,268		Machida	8/16/94	
J		5,465,335		Anderson	11/7/95	
J		5,467,319		Nusinov et al.	11/14/95	
J		5,475,825		Yonezawa et al.	12/12/95	
J		5,615,135		Waclawsky et al.	3/25/97	
J		5,619,676		Fukuda et al.	4/8/97	
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J		5,752,069		Roberts et al.	5/12/98	
J		6,065,064		Satoh et al.	5/16/00	
J		5,319,590		Montoye	6/7/94	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				
J		EP	0944093A1		NEC Corporation	9/2/99		

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	First Named Inventor: V. Srinivasan	
	Filing Date: 9/23/99	



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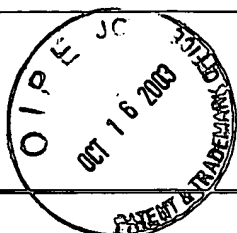
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✓		6,044,005		Gibson et al.	3/28/00	
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✓		6,144,574		Kobayashi et al.	11/7/00	
✓		6,181,698		Hariguchi	1/30/01	
✓		6,237,061		Srinivasan	5/22/01	
✓		6,266,262		Washburn et al.	7/24/01	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				

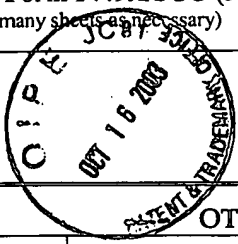
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**OTHER ART - NO PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation <sup>2</sup>
JB		Waldvogel et al. "Scalable High-Speed Prefix Matching", ACM Transactions on Computer Systems (TOCS), Vol. 19, pages 440-482, Nov. 2001.	
JB		Srinivasan et al., "Fast Address Lookups Using Controlled Prefix Expansion", ACM Transactions on Computer Systems (TOCS), Vol. 17, pages 1-40, Feb. 1999.	
JB		Waldvogel et al., "Scalable High Speed IP Routing Lookups", Proceedings of the ACM SIGCOMM '97 Conference on Applications, Technologies, Architectures, and Protocols for Computer Communication, pages 1997.	
JB		Engineers, Technical Report of IEICE, IN08-119 (1998-11), pages 7-12.	
JB		Japanese Patent Abstract, Publication No. 04021997A, published January 24, 1992, 1 page.	
JB		Japanese Patent Abstract, Publication No. 05182472A, published July 23, 1993, 1 page.	
JB		MOSAID, The Next Generation of Content Addressable Memories, MOSAID Technologies Incorporated, September 1999, 8 pages.	
JB		C.C. Wang and I.H. Horng, "Realization of Bidirection Associative Memory Using a Pseudo-Parallel Searching Approach, 1995 IEEE International Conference on Neural Networks, Vol. 3, pp. 1502-1507, December 1995.	

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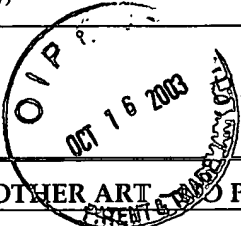
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<b>OTHER ART AND PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation <sup>2</sup>
LB		Kobayashi, M. et al., "A Processor Based High-Speed Longest Prefix Match Search Engine", IEEE Workshop on High Performance Switching and Routing, page(s) 233-239, 2001.	
LB		Kobayashi, M. et al. "A Longest Prefix Match Search Engine For Multi-Gigabit IP Processing", IEEE International Conference on Communications, Vol. 3, page(s) 1360-1364, 2000.	
LB		Hayashi, T. et al., "High-Speed Table Lookup Engine for Ipv6 Longest Prefix Match", Global Telecommunications Conference, Vol. 2, page(s) 1576-1581, 1999.	
LB		Huang et al., "A Novel IP-Routing Lookup Scheme and Hardware Architecture For Multigigabit Switching Routers", IEEE Journal Selected Areas in Communications, pp(s) 1093-1104, 06/1999.	
LB		Huang et al., "A Fast Routing Lookup Scheme For Gigabit Switching Routers", Eighteenth Annual Joint Conference of the IEEE Computer and Communications Societies, Vol. 3, pp(s) 1429-1436, 1999.	
LB		High Speed Address Search Engine," Document No. S13450EJ3V0PF00 (3 <sup>rd</sup> edition), published February 1999, ©NEC Corporation, 2 pages.	

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JB		4,845,668		Sano et al.	7/4/89	
JB		5,010,516		Oates	4/23/91	
JB		5,072,422		Rachels	12/10/91	
JB		5,621,677		Jones	4/15/97	
JB		4,758,982		Price	7/19/88	
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JB		4,670,858		Almy	6/2/87	
JB		4,656,626		Yudichak et al.	4/7/87	

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JB		Japan	08167295		Kawasaki Steel Corporation	6/25/96		

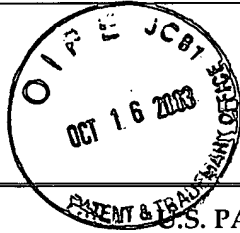
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		4,646,271		Uchiya Technology Center	2/24/87	
		4,523,301		Kadota	6/11/85	
		4,472,805		Wacyk et al.	9/18/84	
		4,244,033		Hattori	1/6/81	
		4,112,502		Scheuneman	9/5/78	
		3,868,642		Sachs	2/25/75	
		3,675,211		Raviv	7/4/72	
		3,353,159		Lee, III	11/14/67	

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		EP	0774758A2			5/21/97		

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		3,257,646		Roth	6/21/66	
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		5,036,486		Noguchi et al.	7/30/91	
		5,014,195		Farrell et al.	5/7/91	
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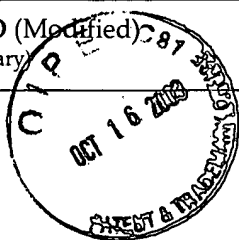
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JB		4,928,260		Chuang et al.	5/22/90	
JB		4,903,234		Sakaraba et al.	2/20/90	
JB		4,813,002		Joyce et al.	3/14/89	
JB		4,791,606		Threewitt et al.	12/13/88	
JB		4,785,398		Joyce et al.	11/15/88	
JB		4,780,845		Threewitt	10/25/88	
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JB		5,455,576		Clark, II et al.	10/3/95	

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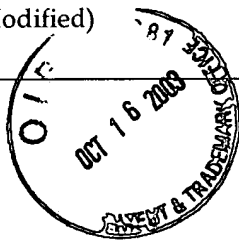
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<b>Substitute for Form 1449A/PTO (Modified)</b> (use as many sheets as necessary)	<b>Attorney Docket No.:</b> 002489.P015	<b>Application Number:</b> 09/406,170
	<b>First Named Inventor:</b> V. Srinivasan	
	<b>Filing Date:</b> 9/23/99	



### U.S. PATENT DOCUMENTS

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		5,422,838		Lin	6/6/95	
		5,414,704		Spinney	5/9/95	
		5,383,146		Threewitt	1/17/95	
		5,319,763		Ho et al.	6/7/94	
		5,265,100		McClure et al.	11/23/93	
		5,239,642		Gutierrez et al.	8/24/93	
		5,226,005		Lee et al.	7/6/93	

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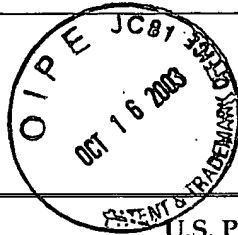
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JB		5,111,427		Kobayashi et al.	5/5/92	
JB		5,107,501		Zorian	4/21/92	
JB		6,006,306		Haywood, et al.	12/21/99	
JB		6,000,008		Simcoe	12/7/99	
JB		5,949,696		Threewitt	9/7/99	
JB		5,870,324		Helwig	2/9/99	
JB		5,818,786		Yoneda	10/6/98	
JB		5,706,224		Srinivasan, et al.	1/6/98	

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JB		EP	0381249A2		NEC Corporation	8/8/90		

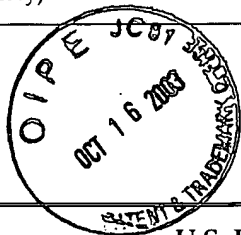
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	<b>First Named Inventor:</b> V. Srinivasan	
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		5,642,322		Yoneda	6/24/97	
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		5,491,703		Barnaby et al.	2/13/96	
		5,490,102		Jubran	2/6/96	
		5,485,418		Hiraki et al.	1/16/96	
		6,362,993		Henderson et al.	3/26/02	
		6,175,514		Henderson et al.	1/16/01	

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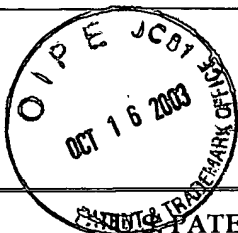







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

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		<b>First Named Inventor:</b> V. Srinivasan				
		<b>Filing Date:</b> 9/23/99				
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		Number Code <sup>2</sup>	Kind (If known)			
		6,069,573		Clark, II et al.	5/30/00	
		5,999,435		Henderson et al.	12/7/99	
		5,978,885		Clark, II	11/2/99	
		5,828,324		Clark, II	10/27/98	
		5,406,508		Hayashibara	4/11/95	
		5,649,149		Stormon et al.	7/15/97	
		5,818,873		Wall et al.	10/6/98	

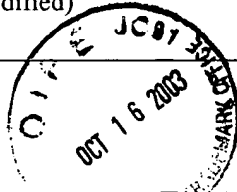
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				
		EP	0872802A2		NEC Corporation	10/21/98		
		PCT	WO99/31581		IP Semiconductors	6/24/99		

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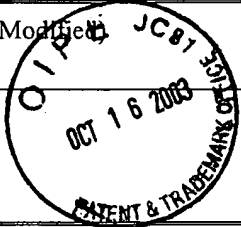
Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 002489.P015	Application Number: 09/406,170
		First Named Inventor: V. Srinivasan	<b>RECEIVED</b> OCT 20 2003 Technology Center 2600
		Filing Date: 9/23/99	
<b>OTHER ART - NO PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation <sup>2</sup>
JB		Kanad Ghose, "Response Pipelined Cam Chips: The First Generation and Beyond," 7 <sup>th</sup> International Conference on VLSI Design, January 1994, pp. 365-368.	
JB		Anthony McAuley et al., "A Self-Testing Reconfigurable CAM", IEEE Journal of Solid-State Circuits, Vol. 26, No. 3, March 1991 pp. 257-261.	
JB		Masao Akata, "A Scheduling Content-Addressable Memory for ATM Space Division Switch Control", IEEE International Solid-State Circuits Conference, Feb. 1991, New York.	
JB		Sook-ik Chae et al., "Content-Addressable Memory for VLSI Pattern Inspection", IEEE Journal of Solid-State Circuits, Vol. 23, No. 1, February 1988, pp. 74-78.	
JB		Yong-Chui Shin et al., "A Special-Purpose Content Addressable Memory Chip for Real-Time Image Processing", IEEE Journal of Solid-State Circuits, Vol. 27, No. 5, May 1992, pp. 737-744.	
JB		Pankaj Gupta et al., "Routing Lookups in Hardware at memory Access Speeds", Proc. Infocom, April 1998, 8 pgs.	

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SB		Masayoshi Kobayashi et al., "A 50Mpps Longest Prefix Match Search Engine LSI for Multi-gigabit IP Forwarding", Technical Report of IEICE IN08-119, November 1998, pp. 7-12.	
SB		Takeshi Ogura et al., "A 4kbit Associative Memory LSI", IEEE Journal of Solid State circuit, Vol. SC-20, No. 6, December 1985, pp. 1277-1284.	
SB		Simon R. Jones et al., "A 9-kbit Associative Memory for High Speed Parallel Processing Applications", IEEE Journal of Solid-State Circuits, Vol. 23, No. 2, April 1988 pp. 543-548.	

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